CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.:CTCE/BBMP/W.No.17/VP/CEMENT/2013-14

Date: 08.05.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. V. Prakash,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing and fixing MS street Name Boards at Muthyalanagara & Mohankumar nagara areas in Ward No.17, BBMP, Bangalore.
REFERENCE	:	EE/RRND/WO/257/2011-12 Dated: 04.07.2012
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	31.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
3	Soundness by the Le Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

Note:

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Job No: CTCE/BBMP/W.No.17/VP/SAND/2013-14 : 08.05.2013

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Mr. V. Prakash,** Contractor, Bangalore.

Name of Work : Providing and fixing MS street Name Boards at Muthyalanagara & Mohankumar nagara areas in Ward No.17, BBMP, Bangalore.

Reference : EE/RRND/WO/257/2011-12 Dated: 04.07.2012

Date of Testing : 08.05.2013

Material : Sand

Total Wt. of Aggregates in gms : 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	95	4.75	4.75	95.3	90-100
2.36	195	9.75	14.50	85.5	75-100
1.18	455	22.75	37.25	62.8	55-90
600 Micron	465	23.25	60.50	39.5	35-59
300 Micron	520	26.00	86.50	13.5	8-30
150 Micron	200	10.00	96.50	3.5	0-10

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CTCE/BBMP/WNo.17/VP/AGG/2013-14 : 08.05.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Mr. V. Prakash,** Contractor, Bangalore.

Name of Work : Providing and fixing MS street Name Boards at Muthyalanagara & Mohankumar nagara areas in Ward No.17, BBMP, Bangalore.

Reference : EE/RRNTD/WO/257/2011-12 Dated: 04.07.2012

Date of Testing : 08.05.2013

Material : 40mm Aggregates

Total Wt of Aggregates in gms **25200**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	995	3.95	3.95	96.05	95-100
20	15840	62.86	66.81	33.19	30-70
10	5025	19.94	86.75	13.25	10-35
4.75	2585	10.26	97.00	3.00	0-5

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CTE/BBMP/W.No.17/VP/MS Pipe/2013-14

14.05.2013

TEST REPORT ON M.S PIPE (75mm Dia)

Client : **Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Mr. V. Prakash,** Contractor, Bangalore.

Name of work : Providing and fixing MS street Name Boards at Muthyalanagara & Mohankumar nagara areas in Ward No.17, BBMP, Bangalore.

Reference : EE/RRND/WO/257/2011-12 Dated: 04.07.2012

Specimen Size : M.S Pipe 75mm Dia

PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	1.66 mm
2	Inner Diameter	72.04 mm
3	Outer Diameter	75.34 mm
4	Weight / Meter	2.95 kg

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Ref: BBMP/W.No.17/MS Pipe/2013-14 14.05.2013

TEST REPORT ON M.S PIPE (20mm Dia)

To : **Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Mr. V. Prakash,** Contractor, Bangalore

Name of work : Providing and fixing MS street Name Boards at Muthyalanagara & Mohankumar nagara areas in Ward No.17, BBMP, Bangalore.

Reference : EE/RRND/WO/257/2011-12 Dated: 04.07.2012

Specimen Size : M.S Pipe 20mm Dia

PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	1.64 mm
2	Inner Diameter	19.40 mm
3	Outer Diameter	22.68 mm
4	Weight / Meter	0.78 kg

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Ref No: CTCE/BBMP/W.No.17/VP/CUBE/2013-14

14.06.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	: **Mr. V. Prakash,** Contractor, Bangalore.
Name of the work	: Providing and fixing MS street Name Boards at Muthyalanagara & Mohankumar nagara areas in Ward No.17, BBMP, Bangalore
Reference	: EE/RRND/WO/257/2011-12 Dated: 04.07.2012
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.05.2013	14.06.2013	8.155	478.3	21.26
2	17.05.2013	14.06.2013	8.280	498.2	22.14
3	17.05.2013	14.06.2013	8.360	512.3	22.77

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15.06.2015

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	: **Mr. V. Prakash,** Contractor, Bangalore.
Name of the work	: Providing and fixing MS street Name Boards at Muthyalanagara & Mohankumar nagara areas in Ward No.17, BBMP, Bangalore.
Reference	: EE/RRND/WO/257/2011-12 Dated: 04.07.2012
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.05.2013	15.06.2015	8.098	480.6	21.36
2	18.05.2013	15.06.2015	8.298	515.5	22.91
3	18.05.2013	15.06.2015	8.185	490.5	21.80

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